

ABSTRACT

An original method to produce polymeric products is described, which after a special cross-linking become
5 macroplegmatic and acquire ability to absorb organic solvents, petrol and petroleum and products which are released in the water basins or on the sea , 40-80 gram of oily matter/gram of polymers.

The polymers to process are Polystyrene, trimeric
10 copolymer with Styrene, Ethylene, Butadiene (SEBS) elastomeric SBR with Styrene 10%, 20% and 40% fully hydrogenated to saturation, which after special crosslinking in chlorinated solvents with crosslinking agent the 1,4 dichloromethyl -2,5 -dichloro benzene
15 (DCDMDB) and with catalyst the Titanium Tetrachloride (Ti Cl₄) where at 60°C is formed a thick cross-linked mass which is cut in a mincing machine and the solvent is removed and the polymeric products are deodorised after heating at 170°C with stirring under vacuum.
20 Those products are brought in a polypropylene net and are swept on the surface of water basins, on the surface of harbours and on the surface of sea collecting the oily matter and the petroleum by absorption endomolecularly and by external surface adherence and the loaded net is
25 washed with petroleum to receive all absorbed oily matter as useful fuel and the net with the absorbing polymers is ready for new absorbing action for depolluting with recycling oily matter from water and sea basins.